

# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address COMMISSIONER FOR PATENTS FO Box 1430 Alexandria, Virginia 22313-1450 www.tepto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/526,754	03/04/2005	J. Michael Fitzpatrick	9823-26U1	6931
570 PANITCH SCHWARZE BELISARIO & NADEL LLP ONE COMMERCE SQUARE			EXAMINER	
			SEVERSON, RYAN J	
2005 MARKET STREET, SUITE 2200 PHILADELPHIA. PA 19103		ART UNIT	PAPER NUMBER	
	111111111111111111111111111111111111111		3731	
			MAIL DATE	DELIVERY MODE
			12/10/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

### Application No. Applicant(s) 10/526,754 FITZPATRICK ET AL. Office Action Summary Examiner Art Unit Rvan Severson 3731 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 24 September 2008. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-17.20 and 21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) \_\_\_\_\_ is/are allowed. 6) Claim(s) 1-17,20 and 21 is/are rejected. 7) Claim(s) \_\_\_\_\_ is/are objected to. 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on 04 March 2005 is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some \* c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). \* See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date \_\_\_\_\_\_.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

Application/Control Number: 10/526,754 Page 2

Art Unit: 3731

#### DETAILED ACTION

#### Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 24 September 2008 has been entered.

## Claim Rejections - 35 USC § 103

- The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-13, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Howard, III et al. (6,096,048) in view of Guthrie et al. (5,230,623). Howard et al. disclose the device substantially as claimed including a frame having first and second arms (9) having a plurality of marker attachment portions with points (19 and 45) that receive the markers. A plurality of markers (21) can be attached to the marker points in various orientations. Since the bores of the attachment points are threaded, the markers are *capable* of being screwed into the bores from either side of the arm, thereby creating different orientations. A maxillary holding device (see figure 4) is also included that is secured to the jaw of a patient. The holding device is

Application/Control Number: 10/526,754

Art Unit: 3731

removable from the frame. The frame is preferably made from a polymer material (see column 6, lines 18 and 19). However, Howard et al. do not disclose a portion of the marker attachment device being angled with respect to the axis of the arms. Attention is drawn to Guthrie et al., who teach the use of marker portions that are angled with respect to the arms of a frame (see figure 5) to increase the accuracy in locating and relocating the frame for multiple procedures. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have made the marker attachment portions of Howard et al. angled with respect to the arms in the manner taught by Guthrie et al. to increase the accuracy in placement of the frame.

4. Claims 14-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Howard, III et al. (6,096,048) in view of Guthrie et al. (5,230,623) and Galloway, Jr. et al. (2003/0000535). The combination of Howard et al. and Guthrie et al. discloses the structure substantially as claimed as has been described above. However, the combination does not disclose a reference emitter used with the device. Attention is drawn to Galloway et al., who teach the use of a reference emitter in imageguided surgery to allow a person's anatomy to move relative to a tracking sensor without losing accuracy during the surgical procedure (see paragraphs 40 and 44). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include the reference emitter of Galloway et al. with the device of the combination of Howard et al. and Guthrie et al. to maintain accuracy during an image-guided surgical procedure if the patient moves relative to the tracking sensor.

Application/Control Number: 10/526,754 Page 4

Art Unit: 3731

Response to Arguments

5. Applicant's arguments with respect to claims 1-17, 20 and 21 have been

considered but are moot in view of the new ground(s) of rejection.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ryan Severson whose telephone number is (571)272-

3142. The examiner can normally be reached on Monday - Friday 8:30-5:00.

7. If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Todd Manahan can be reached on (571) 272-4713. The fax phone number

for the organization where this application or proceeding is assigned is 571-273-8300.

8. Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have guestions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/R. S./ Examiner, Art Unit 3731

/Todd E Manahan/ Supervisory Patent Examiner, Art Unit 3731